

1998 Toxics Release Inventory

PENNSYLVANIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	86,237,168	69,849,054	156,086,222
Air Emissions	38,602,369	59,194,889	97,797,258
Surface Water Discharges	45,483,216	643,790	46,127,006
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	160,801	160,801
On-site Land Releases to RCRA Subtitle C Landfills	95,834	1,210,200	1,306,034
Other On-site Land Releases	2,055,749	8,639,374	10,695,123
Off-site Releases (Transfers Off-site to Disposal)*	49,764,611	10,313,932	60,078,543
Total On- and Off-site Releases	136,001,779	80,162,986	216,164,765
Recycled On-site	399,505,129	153,813	399,658,942
Recycled Off-site	140,635,343	11,012,696	151,648,039
Energy Recovery On-site	54,321,983	0	54,321,983
Energy Recovery Off-site	22,163,998	69,256	22,233,254
Treated On-site	176,655,847	28,859,605	205,515,452
Treated Off-site**	28,973,270	427,076	29,400,346
Quantity Released On- and Off-site ***	142,164,686	90,495,259	232,659,945
Total Production-related Waste Managed	964,420,256	131,017,705	1,095,437,961
Total Non-production-related Waste Managed	3,335,635	6,234	3,341,869

Transfers Off-site for Further Waste Management/Disposal

Recycling	134,047,527	11,075,883	145,123,410
Energy Recovery	21,574,090	75,369	21,649,459
Treatment	14,135,376	28,568	14,163,944
Publicly Owned Treatment Works (POTWs)	9,329,125	418,159	9,747,284
Metals and Metal Compounds*	78,220	2,006	80,226
Non-metal TRI Chemicals**	9,250,905	416,153	9,667,058
Other Off-site Transfers****	32,249	0	32,249
Off-site Transfers to Disposal	59,421,962	10,346,163	69,768,125
(not including metals to POTWs)			
Total Transfers Off-site for Further	238,540,329	21,944,142	260,484,471
Waste Management/Disposal			

- * Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- *** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- ****Transfers reported without a valid waste management code.

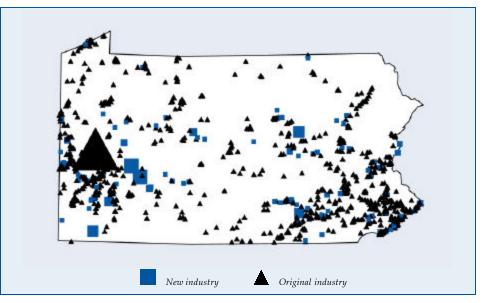
For More Information . . .

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The largest marker in the state map represents the largest facility for on-site releases in the state of Pennsylvania. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population			12,001,451
Square Miles			44,820
Total Facilities			1,389
Total Forms			4,988
Form As			706
	Original Industries	Nazo Industrias	Total

Form As			706
	Original Industries	New Industries	Total
National Rank for Total On- and O	Off-site Releases*		
Rank	4	7	8
Pounds	136,001,779	80,162,986	216,164,765
National Rank for Total On-site R	eleases**		
Rank	6	11	9
Pounds	86,237,168	69,849,054	156,086,222
National Rank for Total Releases	within State***		
Rank	4	7	8
Pounds	131,681,164	82,429,547	214,110,711
National Rank for Production-rela	ted Waste Managed		
Rank	4	11	8
Pounds	964,420,256	131,017,705	1,095,437,961

- Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- * Includes amounts released at the facility. Excludes amounts transferred to other sites.
- *** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.

PENNSYLVANIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

			On-Site	Releases		Off-site Releases		Off-s	Off-site Transfers to Disposal		
		Air	Surface Water	Underground	On-site Releases to	Transfers Off-Site to	Total Releases in	Transferred Into	Transferred Within	Transferred Out of	
CAS		Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State	
Number	Chemical	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
_	Nitrate compounds	139	45,008,562	0	103	154,083	45,162,887	20,467	104,747	49,586	
_	Zinc compounds	1,091,983	20,251	0	1,228,849	27,839,563	30,180,646	992,820	20,714,337	7,127,833	
_	Manganese compounds	41,134	18,614	0	121,802	5,479,980	5,661,530	679,707	3,570,509	1,914,986	
_	Lead compounds	35,782	4,808	0	0	5,398,231	5,438,821	163,975	1,917,569	4,407,438	
108-88-3	Toluene	5,182,536	2,382	0	81	125,811	5,310,810	6,991	28,909	113,947	
67-56-1	Methanol	4,121,599	8,824	0	3,813	51,734	4,185,970	570	24,071	47,716	
7647-01-0	Hydrochloric acid	3,162,325	0	0	0	663,476	3,825,801	200,712	0	663,476	
75-09-2	Dichloromethane	3,538,123	37	0	0	44,687	3,582,847	2	3,026	44,669	
7664-41-7	Ammonia	3,003,204	259,504	0	253	16,102	3,279,063	187	3,527	12,575	
1332-21-4	Asbestos (friable)	752	0	0	0	2,951,472	2,952,224	14,817	2,651,472	300,000	

^{*} Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

			On-Site	Releases		Off-site Releases		Off-s	site Transfers to Disp	osal
			Surface		On-site	Transfers	Total	Transferred	Transferred	Transferred
		Air	Water	Underground	Releases to	Off-Site to	Releases in	Into	Within	Out of
CAS		Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State
Number	Chemical	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
7647-01-0	Hydrochloric acid	37,274,870	0	0	5	510	37,275,385	0	255	255
7664-93-9	Sulfuric acid	16,805,474	0	0	0	0	16,805,474	0	0	0
_	Barium compounds	124,763	7,229	82,000	2,554,028	1,908,674	4,676,694	195,035	1,938,674	0
7664-39-3	Hydrogen fluoride	4,161,066	0	0	0	0	4,161,066	0	0	0
_	Zinc compounds	64,446	6,226	19,200	1,747,933	1,183,242	3,021,047	62,882	1,171,642	11,600
_	Copper compounds	73,896	1,935	17,000	1,023,418	1,175,393	2,291,642	37,318	1,173,388	2,005
_	Manganese compounds	26,070	24,491	17,400	805,533	897,156	1,770,650	42,964	897,156	0
_	Lead compounds	37,017	419	0	1,078,582	383,801	1,499,819	112,253	355,745	28,056
_	Nitrate compounds	0	554,250	0	680,000	150,000	1,384,250	3,269	150,000	0
_	Chromium compounds	10,714	1,997	14,800	501,895	702,210	1,231,616	51,290	700,205	2,005

^{*} Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

^{**} The chemical ranking is based on the amounts in this column.

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PENNSYLVANIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

				Off-site I (Transfers Off-s					
			Undergrour	nd Injection	On-site Rel	eases to Land			
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases	Total On-site Releases*	Transferred Within State	Transferred Out of State
Facility, City, County	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Armco Inc. Butler Ops. (Rte 8S), Butler, Butler	136,108	31,059,449	0	0	0	0	31,195,557	482,090	7,443
J & L Specialty Steel Inc., Midland, Beaver	76,060	3,800,497	0	0	0	0	3,876,557	11,098	531,326
Armco Inc. Butler Ops. (Bantam Ave.), Butler, Butler	21,460	3,600,363	0	0	0	0	3,621,823	56,200	236
Carpenter Tech. Corp., Reading, Berks	72,634	2,749,270	0	0	0	0	2,821,904	1,462	25
International Paper Lock Haven Mill, Lock Haven, Clinton	860,890	148,051	0	0	0	1,167,332	2,176,273	0	0
Foamex L.P., Corry, Erie	1,873,918	0	0	0	0	0	1,873,918	0	0
International Paper Erie Mill, Erie, Erie	1,649,793	7,700	0	0	0	0	1,657,493	133,225	0
P. H. Glatfelter Co., Spring Grove, York	1,423,587	21,670	0	0	0	63,714	1,508,971	8,069	27,362
Allegheny Ludlum Corp., Leechburg, Westmoreland	2,020	1,502,960	0	0	0	0	1,504,980	52,000	250
Cabot Performance Materials, Boyertown, Berks	1,388,471	41,593	0	0	0	0	1,430,064	1,750	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Undergroui	nd Injection	On-site Rel	eases to Land			
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases	Total On-site Releases*	Transferred Within State	Transferred Out of State
Facility, City, County	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Keystone Station, Shelocta, Armstrong	8,730,088	17,385	0	0	0	654,600	9,402,073	0	0
Eme Homer City Generation L.P., Homer City, Indiana	8,856,289	13,633	0	0	0	324,500	9,194,422	0	0
Montour Steam Electric Station, Danville, Montour	6,500,089	0	0	0	0	113,913	6,614,002	0	0
Hatfield Power Station, Masontown, Fayette	5,558,952	1,260	0	0	0	801,400	6,361,612	0	0
Brunner Island Steam Electric Station, York Haven, York	5,458,051	0	0	0	0	0	5,458,051	0	0
Mill Service Inc., Yukon, Westmoreland	3,500	556,260	0	0	1,116,200	2,824,100	4,500,060	93,910	0
Firstenergy, Bruce Mansfield Plant, Shippingport, Beaver	4,108,800	4,513	0	0	0	0	4,113,313	2,133,900	0
Shawville Station, Shawville, Clearfield	2,771,433	726	0	0	0	372,000	3,144,159	0	0
Conemaugh Station, New Florence, Indiana	1,173,948	12,199	0	0	94,000	893,000	2,173,147	0	0
Armstrong Power Station, Kittanning, Armstrong	1,794,222	765	0	0	0	206,000	2,000,987	0	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

	Recycled On-site	Recycled Off-site	Energy Recovery On-site	Energy Recovery Off-site	Treated On-site	Treated Off-site	Quantity Released On- and Off-site*	Total Production- related Waste Managed	Total Non- Production- related Waste Managed
Facility, City, County	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Armco Inc. Butler Ops. (Rte 8S), Butler, Butler	0	5,195,000	0	0	28,499,000	37,088	31,686,300	65,417,388	0
Zinc Corp. of America, Monaca Smelter, Monaca, Beaver	0	0	0	0	0	0	20,941,500	20,941,500	0
USS Mon Valley Works — Edgar Thomson Plant, Braddock, Allegheny	2,160,170	1,300,399	0	0	0	0	5,945,400	9,405,969	0
Bar Tech. S. Inc. Primary Ops., Johnstown, Cambria	0	0	0	0	0	0	5,355,200	5,355,200	0
J & L Specialty Steel Inc., Midland, Beaver	29,990,000	0	0	0	2,300,000	196,973	4,388,008	36,874,981	0
Zinc Corp. of America, Palmerton, Carbon	31,724	0	0	0	0	0	3,891,380	3,923,104	0
Armco Inc. Butler Ops. (Bantam Ave.), Butler, Butler	0	0	0	0	4,300,000	76	3,679,400	7,979,476	0
Carpenter Tech. Corp., Reading, Berks	164,120	4,454,536	0	2,293	2,024,174	0	2,823,366	9,468,489	0
International Paper Lock Haven Mill, Lock Haven, Clinton	0	0	0	0	344,368	0	2,174,863	2,519,231	0
Diamond Mfg. Co., Wyoming, Luzerne	0	556,947	0	0	0	0	1,908,354	2,465,301	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Keystone Station, Shelocta, Armstrong	0	0	0	0	3,040,000	0	9,404,000	12,444,000	0
EME Homer City Generation L.P., Homer City, Indiana	0	0	0	0	5,200,000	0	9,195,000	14,395,000	0
Carlos R. Leffler Inc., Tuckerton Facility, Reading, Berks	0	9,053,064	0	0	0	0	9,091,200	18,144,264	4
Montour Steam Electric Station, Danville, Montour	0	0	0	0	0	0	6,613,696	6,613,696	0
Hatfield Power Station, Masontown, Fayette	0	0	0	0	0	0	6,366,200	6,366,200	0
Firstenergy, Bruce Mansfield Plant, Shippingport, Beaver	0	0	0	0	0	0	6,243,000	6,243,000	15
Brunner Island Steam Electric Station, York Haven, York	0	0	0	0	0	0	5,456,650	5,456,650	0
Mill Service Inc., Yukon, Westmoreland	0	0	0	0	1,300,000	0	4,588,090	5,888,090	0
Shawville Station, Shawville, Clearfield	0	95	0	0	941,300	0	3,141,600	4,082,995	0
Conemaugh Station, New Florence, Indiana	0	0	0	0	8,930,000	0	2,172,900	11,102,900	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.